



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005



Job No.: CTCE/BBMP/WNo.8/KRIDL/CUBE/2014-15



03.05.2014

TEST REPORT ON CONCRETE CUBES

Client : Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Agency : Technical Manager, KRIDL, Bangalore.

Name of the work : Improvements to roads and drains at De-Enclave in Ward No. 8, BBMP, Bangalore.

Reference : AEE/KH/439/2014-15

Sample ID : Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₀

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	05.04.2014	03.05.2014	8.162	483.5	21.49
2	05.04.2014	03.05.2014	8.275	502.7	22.34
3	05.04.2014	03.05.2014	8.368	528.9	23.51

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from the date of testing.

48-08
2014

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Job.No.: CTCE/BBMP/WNo.8/KRIDL/WMM/Gradation/2014-15



30.04.2014

GRADATION FOR WMM MORTH TABLE-400-11

Client : Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Agency : Technical Manager, KRIDL, Bangalore.
Name of Work : Improvements to roads and drains at De-Enclave in Ward No. 8, BBMP, Bangalore.
Reference : AEE/KH/439/2014-15

Date of Testing : 30.04.2014

Material : WMM

Sample Location : WMM Mix Plant

Oven Dry Wt (gm): 26005

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	946	946	3.6	96.4	95-100
22.4	7462	8408	32.3	67.7	60-80
11.2	5259	13667	52.6	47.4	40-60
4.75	5126	18793	72.3	27.7	25-40
2.36	2689	21482	82.6	17.4	15-30
0.600	2175	23657	91.0	9.0	8-22
0.075	1953	25610	98.5	1.5	0-8

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Job No.: CTCE/BBMP/WNo.8/KRIDL/SDBC/Bitumen/2014-15

16.05.2014

BITUMEN CONTENT AND GRADATION DETERMINATION OF SEMI DENSE BITUMINOUS CONCRETE MIX

As per IS : 2386 and IRC : SP : 11 - 1984

CLIENT	Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
AGENCY	Technical Manager, KRIDL, Bangalore.
NAME OF THE WORK	Improvements to roads and drains at De-Enclave in Ward No. 8, BBMP, Bangalore.
REFERENCE	AEE/KH/439/2014-15
SAMPLE I/D	Roads at De-Enclave in Ward No. 8
DATE OF TESTING	16.05.2014



BITUMEN CONTENT DETERMINATION

Description	Trail 1	Trail 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	474.5	474
3. Weight of Asphalt and Mineral matter Extracted, g	-	-
4. Weight of Mineral Matter, g.	-	-
5. Weight of Ash, g		
6. Weight of Bitumen Extracted, g. (corrected)	25.5	26.00
7. Bitumen content in %	5.10	5.20
8. Average	5.15	

GRADATION AFTER EXTRACTION

SIEVE SIZE	Trail 1				JOB MIX
mm	Weight Retained, gm	% Retained	% Cumulative Retained	% Passing	Gradation
13.2	0	0	0	100	100
9.5	25.96	5.47	5.47	94.53	90-100
4.75	246.23	51.89	57.36	42.64	35-51
2.36	53.48	11.27	68.63	31.37	24-39
1.18	51.23	10.80	79.43	20.57	15-30
0.3	36.48	7.69	87.12	12.88	9-19
0.075	36.52	7.70	94.82	5.18	3-8

SIEVE SIZE	Trail 2				JOB MIX
mm	Weight Retained, gm	% Retained	% Cumulative Retained	% Passing	Gradation
13.2	0	0	0	100	100
9.5	26.15	5.23	5.23	94.77	90-100
4.75	243.85	48.77	54.00	46.00	35-51
2.36	87.96	17.59	71.59	28.41	24-39
1.18	46.53	9.31	80.90	19.10	15-30
0.3	25.81	5.16	86.06	13.94	9-19
0.075	40.19	8.04	94.10	5.90	3-8

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16-05-2014
16/5/14

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